



IIT Research Institute
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Dr. Maurice Dubin
Code SG
NASA Headquarters
Washington, D. C.

Dear Dr. Dubin:

This is the sixth quarterly status report on NASA Contract NASr-65(11)/14-003-911 (IITRI Project W6120). This report describes the work performed under this contract during the period 1 April 1966 through 30 June 1966.

1. Work Performed

The calibrated phosphor light source obtained from ESSA was used to calibrate the four photometers employed in the expedition. Final calibration values are being withheld pending the recalibration of the filters which is now in progress.

A computer code obtained from V. Peterson of ESSA has been debugged and data samples have been processed. This program derives airglow intensities from ionospheric parameters by means of the Barbier formula. Ionospheric and airglow data are being prepared for further programming.

J. Greenspan presented a paper entitled "Nightglow Observations During NASA's Mobile Launch Expedition No. 1" at the recent AGU meeting in Washington, D. C. This paper was described in status report No. 4.

2. Future Work

An article entitled "Synoptic Description of the 5577 Å Nightglow Near 78° West Longitude" will be prepared and submitted to JATP. This will include calibrations for the companion paper (in press) describing the 6300 Å results. Work will continue on correlation studies with ionospheric data. The results of these studies will also be published. Attempts at more refined data reduction will be performed for those data used for correlation.

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Respectfully submitted,
IIT Research Institute

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